

**UTILITY
PATENT APPLICATION
TRANSMITTAL**

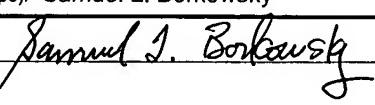
Attorney Docket No.: S-100,585

First Inventor or Application Identifier: Benjamin P. Warner et al.

Title: METHOD AND APPARATUS FOR DETECTING CHEMICAL BINDING

Express Mail Label No.: ET461826440US

PTO
21908
10/621825
07/16/03

APPLICATION ELEMENTS		ADDRESS TO: Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450
<p>1. <input checked="" type="checkbox"/> * Fee Transmittal Form (e.g. PTO/SB/17). <i>(submit an original and a duplicate for fee processing)</i></p> <p>2. <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27.</p> <p>3. <input checked="" type="checkbox"/> Specification [Total Pages: 18] <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Descriptive title of the Invention <input type="checkbox"/> Cross References to Related Applications <input checked="" type="checkbox"/> Statement Regarding Fed sponsored R&D <input type="checkbox"/> Reference to sequence listing, a table or a computer program listing appendix <input checked="" type="checkbox"/> Background of the Invention <input checked="" type="checkbox"/> Brief Description of the Drawings (if filed) <input checked="" type="checkbox"/> Detailed Description <input checked="" type="checkbox"/> Claim(s) <input checked="" type="checkbox"/> Abstract of the Disclosure </p> <p>4. <input checked="" type="checkbox"/> Drawings(s) (35 U.S.C.113) [Total Sheets: 3] <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Formal <input type="checkbox"/> Informal </p> <p>5. <input checked="" type="checkbox"/> Declaration & Power of Attorney [Total Pages: 2] <ul style="list-style-type: none"> a. <input checked="" type="checkbox"/> Newly executed (original or copy) b. <input type="checkbox"/> Copy from a prior application (37 C.F.R.§.63(d)) <i>(for continuation/divisional with Box 16 completed)</i> c. <input type="checkbox"/> <u>DELETION OF INVENTOR(S)</u> Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. §§ 1.63(d)(2) and 1.33 (b). </p>		<p>6. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)</p> <p>7. Nucleotide and/or Amino Acid Sequence Submission <i>(if applicable, all necessary)</i> <ul style="list-style-type: none"> a. <input type="checkbox"/> Computer Readable Copy b. <input type="checkbox"/> Specification Sequence Listing on: <ul style="list-style-type: none"> i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or ii. <input type="checkbox"/> paper c. <input type="checkbox"/> Statement verifying identity of above copies </p>
ACCOMPANYING APPLICATION PARTS		
<p>8. <input checked="" type="checkbox"/> Assignment Papers (cover sheet & documentation)</p> <p>9. <input type="checkbox"/> 37 C.F.R.§3.73(b) Statement <input type="checkbox"/> Power of Attorney (when there is an assignee)</p> <p>10. <input checked="" type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 <input checked="" type="checkbox"/> Copies of IDS Citations</p> <p>11. <input type="checkbox"/> Preliminary Amendment</p> <p>12. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) <i>(should be specifically itemized)</i></p> <p>13. <input type="checkbox"/> Certified Copy of Priority Document(s) <i>(if foreign priority is claimed)</i></p> <p>14. <input type="checkbox"/> Nonpublication Request and Certification Under 35 U.S.C. 122(b)(2)(b)(i)</p> <p>15. <input type="checkbox"/> Other:</p>		
<p>16. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment:</p> <p><input type="checkbox"/> Continuation <input type="checkbox"/> Divisional <input type="checkbox"/> Continuation-in-part (CIP) of prior application S.N. _____ / _____.</p> <p>Prior application information: Examiner: Group/Art Unit:</p> <p>For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.</p>		
16. CORRESPONDENCE ADDRESS		
<p><input type="checkbox"/> Customer Number or Bar Code Label</p> 		OR <input type="checkbox"/> Correspondence Address Below
35068		
PATENT TRADEMARK OFFICE <i>(Insert Customer No. or Attach Bar Code Label here)</i>		
Name:	Samuel L. Borkowsky	
Address:	Los Alamos National Laboratory LC/IP, MS A187	
City:	Los Alamos	State: New Mexico Zip Code 87545
Country	United States	Telephone: (505) 665-3111 Fax: (505) 665-4424
Name (Print/Type): Samuel L. Borkowsky		Registration No. (Attorney/Agent): 42,346
Signature: 		Date: July 16, 2003

FEE TRANSMITTAL For FY 2003		Complete if Known																																																																																																																																			
<small><i>Patent fees are subject to annual revision (submit an original and a duplicate for fee processing)</i></small>		Application Number:																																																																																																																																			
		Filing Date:																																																																																																																																			
		First Named Inventor:	Benjamin P. Warner et al.																																																																																																																																		
		Examiner Name:																																																																																																																																			
		Group/Art Unit:																																																																																																																																			
		Attorney Docket No.:	S-100.585																																																																																																																																		
METHOD OF PAYMENT		FEE CALCULATION (continued)																																																																																																																																			
<p>1. <input checked="" type="checkbox"/> The commissioner is hereby authorized to charge indicated fees and credit any over payments to: Deposit Account Number: 12-2150 Deposit Account Name: Los Alamos National Laboratory</p> <p><input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 C.F.R. 1.16 and 1.17</p> <p><input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27</p>		<p>3. ADDITIONAL FEES</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Large Entity Fee</th> <th style="text-align: left;">Small Entity Fee</th> <th style="text-align: left;">Fee Description</th> <th style="text-align: right;">Fee Paid</th> </tr> </thead> <tbody> <tr><td>\$130</td><td>\$65</td><td>Surcharge – late filing fee or oath</td><td></td></tr> <tr><td>\$50</td><td>\$25</td><td>Surcharge – late provisional filing fee or cover sheet</td><td></td></tr> <tr><td>\$2,520</td><td>\$2,520</td><td>For filing a request for reexamination</td><td></td></tr> <tr><td>\$110</td><td>\$55</td><td>Extension for reply within first month</td><td></td></tr> <tr><td>\$410</td><td>\$205</td><td>Extension for reply within second month</td><td></td></tr> <tr><td>\$930</td><td>\$465</td><td>Extension for reply within third month</td><td></td></tr> <tr><td>\$1,450</td><td>\$725</td><td>Extension for reply within fourth month</td><td></td></tr> <tr><td>\$1,970</td><td>\$985</td><td>Extension for reply within fifth month</td><td></td></tr> <tr><td>\$320</td><td>\$160</td><td>Notice of Appeal</td><td></td></tr> <tr><td>\$320</td><td>\$160</td><td>Filing a brief in support of an appeal</td><td></td></tr> <tr><td>\$280</td><td>\$140</td><td>Request for oral hearing</td><td></td></tr> <tr><td>\$110</td><td>\$55</td><td>Petition to revive – unavoidable</td><td></td></tr> <tr><td>\$110</td><td>\$55</td><td>Terminal Disclaimer</td><td></td></tr> <tr><td>\$1,300</td><td>\$650</td><td>Petition to revive – unintentional</td><td></td></tr> <tr><td>\$130</td><td>\$130</td><td>Petitions to the Commissioner</td><td></td></tr> <tr><td>\$ 50</td><td>\$50</td><td>Petitions related to provisional applications</td><td></td></tr> <tr><td>\$ 180</td><td>\$180</td><td>Submission of Information Disclosure Statement</td><td></td></tr> <tr><td>\$750</td><td>\$375</td><td>Filing a submission after final rejection (37 CFR 1.129 (a))</td><td></td></tr> <tr><td>\$750</td><td>\$375</td><td>For each additional invention to be examined (37 CFR 1.129(b))</td><td></td></tr> <tr><td>\$100</td><td>\$100</td><td>Certificate of Correction</td><td></td></tr> <tr><td>\$300</td><td>\$300</td><td>Publication fee for early, voluntary, or normal publication</td><td></td></tr> <tr><td>\$750</td><td>\$375</td><td>Request for Continued Examination (RCE)</td><td></td></tr> <tr><td colspan="4">Other fee (specify) _____</td></tr> <tr> <td colspan="2" style="text-align: right;">SUBTOTAL (1)</td> <td style="text-align: right;">\$375.00</td> <td style="text-align: right;">\$-0-</td> </tr> <tr> <td colspan="2" style="text-align: right;">** or number previously paid, if greater; For Reissues, see below</td> <td colspan="2"></td> </tr> <tr> <td colspan="2"> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Large Entity Fee</th> <th style="text-align: left;">Small Entity Fee</th> <th style="text-align: left;">Fee Description</th> </tr> </thead> <tbody> <tr><td>\$18</td><td>\$9</td><td>Claims in excess of 20</td></tr> <tr><td>\$84</td><td>\$42</td><td>Independent claims in excess of 3</td></tr> <tr><td>\$280</td><td>\$140</td><td>Multiple dependent claim, if not paid.</td></tr> <tr><td>\$84</td><td>\$42</td><td>** Reissue independent claims over original patent</td></tr> <tr><td>\$18</td><td>\$9</td><td>** Reissue claims in excess of 20 and over original patent</td></tr> </tbody> </table> </td> <td colspan="2" style="text-align: right;"> SUBTOTAL (2) \$-0- </td> </tr> <tr> <td colspan="2"></td> <td colspan="2" style="text-align: right;"> SUBTOTAL FROM 1 \$375 SUBTOTAL FROM 2 \$-0- SUBTOTAL FROM 3 \$-0- TOTAL AMOUNT OF PAYMENT \$375 </td> </tr> </tbody></table>		Large Entity Fee	Small Entity Fee	Fee Description	Fee Paid	\$130	\$65	Surcharge – late filing fee or oath		\$50	\$25	Surcharge – late provisional filing fee or cover sheet		\$2,520	\$2,520	For filing a request for reexamination		\$110	\$55	Extension for reply within first month		\$410	\$205	Extension for reply within second month		\$930	\$465	Extension for reply within third month		\$1,450	\$725	Extension for reply within fourth month		\$1,970	\$985	Extension for reply within fifth month		\$320	\$160	Notice of Appeal		\$320	\$160	Filing a brief in support of an appeal		\$280	\$140	Request for oral hearing		\$110	\$55	Petition to revive – unavoidable		\$110	\$55	Terminal Disclaimer		\$1,300	\$650	Petition to revive – unintentional		\$130	\$130	Petitions to the Commissioner		\$ 50	\$50	Petitions related to provisional applications		\$ 180	\$180	Submission of Information Disclosure Statement		\$750	\$375	Filing a submission after final rejection (37 CFR 1.129 (a))		\$750	\$375	For each additional invention to be examined (37 CFR 1.129(b))		\$100	\$100	Certificate of Correction		\$300	\$300	Publication fee for early, voluntary, or normal publication		\$750	\$375	Request for Continued Examination (RCE)		Other fee (specify) _____				SUBTOTAL (1)		\$375.00	\$-0-	** or number previously paid, if greater; For Reissues, see below				<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Large Entity Fee</th> <th style="text-align: left;">Small Entity Fee</th> <th style="text-align: left;">Fee Description</th> </tr> </thead> <tbody> <tr><td>\$18</td><td>\$9</td><td>Claims in excess of 20</td></tr> <tr><td>\$84</td><td>\$42</td><td>Independent claims in excess of 3</td></tr> <tr><td>\$280</td><td>\$140</td><td>Multiple dependent claim, if not paid.</td></tr> <tr><td>\$84</td><td>\$42</td><td>** Reissue independent claims over original patent</td></tr> <tr><td>\$18</td><td>\$9</td><td>** Reissue claims in excess of 20 and over original patent</td></tr> </tbody> </table>		Large Entity Fee	Small Entity Fee	Fee Description	\$18	\$9	Claims in excess of 20	\$84	\$42	Independent claims in excess of 3	\$280	\$140	Multiple dependent claim, if not paid.	\$84	\$42	** Reissue independent claims over original patent	\$18	\$9	** Reissue claims in excess of 20 and over original patent	SUBTOTAL (2) \$-0-				SUBTOTAL FROM 1 \$375 SUBTOTAL FROM 2 \$-0- SUBTOTAL FROM 3 \$-0- TOTAL AMOUNT OF PAYMENT \$375	
Large Entity Fee	Small Entity Fee	Fee Description	Fee Paid																																																																																																																																		
\$130	\$65	Surcharge – late filing fee or oath																																																																																																																																			
\$50	\$25	Surcharge – late provisional filing fee or cover sheet																																																																																																																																			
\$2,520	\$2,520	For filing a request for reexamination																																																																																																																																			
\$110	\$55	Extension for reply within first month																																																																																																																																			
\$410	\$205	Extension for reply within second month																																																																																																																																			
\$930	\$465	Extension for reply within third month																																																																																																																																			
\$1,450	\$725	Extension for reply within fourth month																																																																																																																																			
\$1,970	\$985	Extension for reply within fifth month																																																																																																																																			
\$320	\$160	Notice of Appeal																																																																																																																																			
\$320	\$160	Filing a brief in support of an appeal																																																																																																																																			
\$280	\$140	Request for oral hearing																																																																																																																																			
\$110	\$55	Petition to revive – unavoidable																																																																																																																																			
\$110	\$55	Terminal Disclaimer																																																																																																																																			
\$1,300	\$650	Petition to revive – unintentional																																																																																																																																			
\$130	\$130	Petitions to the Commissioner																																																																																																																																			
\$ 50	\$50	Petitions related to provisional applications																																																																																																																																			
\$ 180	\$180	Submission of Information Disclosure Statement																																																																																																																																			
\$750	\$375	Filing a submission after final rejection (37 CFR 1.129 (a))																																																																																																																																			
\$750	\$375	For each additional invention to be examined (37 CFR 1.129(b))																																																																																																																																			
\$100	\$100	Certificate of Correction																																																																																																																																			
\$300	\$300	Publication fee for early, voluntary, or normal publication																																																																																																																																			
\$750	\$375	Request for Continued Examination (RCE)																																																																																																																																			
Other fee (specify) _____																																																																																																																																					
SUBTOTAL (1)		\$375.00	\$-0-																																																																																																																																		
** or number previously paid, if greater; For Reissues, see below																																																																																																																																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Large Entity Fee</th> <th style="text-align: left;">Small Entity Fee</th> <th style="text-align: left;">Fee Description</th> </tr> </thead> <tbody> <tr><td>\$18</td><td>\$9</td><td>Claims in excess of 20</td></tr> <tr><td>\$84</td><td>\$42</td><td>Independent claims in excess of 3</td></tr> <tr><td>\$280</td><td>\$140</td><td>Multiple dependent claim, if not paid.</td></tr> <tr><td>\$84</td><td>\$42</td><td>** Reissue independent claims over original patent</td></tr> <tr><td>\$18</td><td>\$9</td><td>** Reissue claims in excess of 20 and over original patent</td></tr> </tbody> </table>		Large Entity Fee	Small Entity Fee	Fee Description	\$18	\$9	Claims in excess of 20	\$84	\$42	Independent claims in excess of 3	\$280	\$140	Multiple dependent claim, if not paid.	\$84	\$42	** Reissue independent claims over original patent	\$18	\$9	** Reissue claims in excess of 20 and over original patent	SUBTOTAL (2) \$-0-																																																																																																																	
Large Entity Fee	Small Entity Fee	Fee Description																																																																																																																																			
\$18	\$9	Claims in excess of 20																																																																																																																																			
\$84	\$42	Independent claims in excess of 3																																																																																																																																			
\$280	\$140	Multiple dependent claim, if not paid.																																																																																																																																			
\$84	\$42	** Reissue independent claims over original patent																																																																																																																																			
\$18	\$9	** Reissue claims in excess of 20 and over original patent																																																																																																																																			
		SUBTOTAL FROM 1 \$375 SUBTOTAL FROM 2 \$-0- SUBTOTAL FROM 3 \$-0- TOTAL AMOUNT OF PAYMENT \$375																																																																																																																																			

SUBMITTED BY		Complete (if applicable)	
Printed Name:	Samuel L. Borkowsky	Reg. No.	42,346
Signature:	<i>Samuel L. Borkowsky</i>	Date:	July 16, 2003
		Telephone	(505) 665-3111